MAPESTOP PL
Silification solution for construction waterproofing

Where to use:
For the production of retrospective horizontal moisture barriers with capillary rising damp in walls. The capillary porosity of the construction material (blockwork/concrete) is interrupted by the combination of active agents (capillary restriction/hydrophobicity).

Typical applications:
- For single-leaf, void-free masonry
- For multi-leaf masonry with loose filling and masonry containing voids - after previous filling with the drill hole suspension STABILCEM or MAPE-ANTIQUE I (in historical building)
- For the silification of masonry and cementitious substrates

Technical characteristics:
MAPESTOP PL is ready to use, hydrophobic, pore restricting, vapor permeable, solvent free, colourless liquid based on silicon resin in water ideal for creating horizontal damp-proof course against dampness rising in walls. MAPESTOP PL has excellent resistance to the alkalinity present in cement materials.

Product preparation:
I. Low pressure injection method:
Particularly suitable when the wall to be treated is already considerably or completely saturated with water. The borehole arrangement is determined by the type and condition of the wall. The borehole diameter is determined by the application method. Borehole spacing is as a rule 10 – 12.5 cm from hole centre to hole centre. The boreholes are placed horizontally in the pointing mortar or at an angle of up to 45°. The depth of the borehole is about 5cm less than the thickness of the wall. With dense weakly porous brickwork as well as horizontal boreholes, chose a double row borehole arrangement. Here the vertical offset should be <8 cm. With porous natural stone walling place the boreholes in the stone and with dense quarry stone walling in the joints. For wall thicknesses greater than 60 cm and on corners boreholes should be drilled from both sides. Before saturating remove drilling dust. Post application of IDROSILEX Pronto to both sides of the porous wall around the borehole barrier prevents the MAPESTOP PL from escaping. Insert injection packers in the holes. Walls with large voids, hollow blocks, cracks and open joints up to 5mm should be repaired with LAMPOCEM before carrying out the injection process. Subsequently inject MAPESTOP PL at a pressure of <10 bar. Sustain the injection until the neighbouring joint is filled to a satin appearance with MAPESTOP PL. After approx. 24 hours remove the packers and close off the holes with LAMPOCEM.
II. Injection without pressure equipment:
Position 30 mm boreholes at a distance of between 10 – 12.5cm apart, at an angle of between 45° and 30°. The depth of the borehole is approx. 5 cm less than the thickness of the wall. When arranging the bore angles, ensure that at least one mortar joint (two joints in thicker walls) is included. It is recommended to place the boreholes in two planes. The distance between borehole centers is determined by the porosity of the wall. The closer together the boreholes are, the greater the
success of the procedure. Electro-pneumatic drills that work with minimum vibration (e.g. Hilti) with appropriate drill bits are suitable. For wall thicknesses greater than 60 cm and on corners boreholes should be drilled from both sides. Before saturating remove drilling dust. Subsequently insert MAPESTOP PL into the boreholes. It is practical to inject from a storage vessel (hopper with pressure plugs). Saturation time should be a minimum of 24 hours. Afterwards seal the boreholes with LAMPOCEM. For sealing open joints, cracks or voids use the same procedure as for the low pressure application method.

III. Supporting measures
After implementation of the wall injection with MAPESTOP PL to combat rising damp additional suitable supporting measures are necessary. This is essentially the refurbishment of renders with the POROMAP or MAPE-ANTIQUE renovation render system, vertical waterproofing of the external areas in contact with the ground with MAPELASTIC or PLASTIMUL range of products, as well as the incorporation of drainage and the elimination of structural defects.

**Important advice:**
MAPESTOP PL is not suitable for waterproofing:
- horizontal surfaces such as balconies, terraces,
- basements,
- water tanks,
- gypsum surfaces.

**Cleaning:**
Tools used for application MAPESTOP PL can be cleaned with water

**Consumption:**
Dependent on the porosity of the wall.
Min. 15 kg/m², e.g. 36 cm thick wall = 5.5 kg per linear meter of the wall.

**Packaging:**
MAPESTOP PL is available in 200 kg drums
STORAGE
Store MAPESTOP PL in closed packaging in a dry place indoors. Protect from frost.

WARNING
N.B. Although the technical details and recommendations contained in this report correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical applications; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from use of the product.

Technical Data:

<table>
<thead>
<tr>
<th>Product indentation (SIL 80)</th>
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<tbody>
<tr>
<td>Consistency:</td>
<td>liquid</td>
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<tr>
<td>Colour:</td>
<td>transparent</td>
</tr>
<tr>
<td>Specific gravity [kg/dm³]:</td>
<td>1,10 ± 0,05</td>
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<tr>
<td>Solid content [%]:</td>
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<tr>
<td>Storage time:</td>
<td>12 months in unopened original packaging in a dry place</td>
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<tr>
<td>Brookfield viscosity (rotor 1, 50 rpm) [mPas]:</td>
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<tr>
<td>Health hazard according to EC 88/379:</td>
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<td>Inflammability:</td>
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<tr>
<td>Custom class:</td>
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<tr>
<td>Operational temperature range [°C]:</td>
<td>from +5 to +30</td>
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